PORSE 11.3.18.1 02/03





ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301

12/16/93

ZEP PTLD

ISSUE DATE: 06/14/93 SUPERSEDES: 11/03/92

SECTION I - EMERGENCY CONTACTS

TELEPHONE:

(404) 352-1680 MEDICAL EMERGENCY:

BETWEEN 8:00 AM - 5:00 PM (EST)

(404) 432-2873 (404) 424-4789 (404) 319-6151 (404) 242-3561

NON-OFFICE HOURS, WEEKENDS AND HOLIDAYS, PLEASE CALL YOUR LOCAL POISON CONTROL

TRANSPORTATION EMERGENCY:

(404) 922-0923 CHEMTREC:

TOLL-FREE - ALL CALLS RECORDED

1-800-424-9300 DISTRICT OF COLUMBIA: (202) 483-7616

ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS

* HYDROTREATED LIGHT PETROLEUM DISTILLATES ** paraffinio, naphthenic solvent; CAS# 64742-47-8; RTECS#

(PPM) ND

(SEE REVERSE) CBL IRA

PROD > 90

None; Supplier suggested PEL- 100 ppm/ 525 mg/m3

SECTION (I) - HEALTH HAZARD DATA

Special Note: MSDS data penains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

Acute Effects of Overexposure

Overexposure to the vapors from this product may produce mucous membrane irritation, particularly of the eye and respiratory tract. Overexposure to vapors may also produce mild central nervous system depression characterized by headache, dizziness, nauses, and stupor, leading to unconsciousness in extreme cases. Introduction of solvents, as in application of vomitus fluid, may produce chemical pneumonia. Existing respiratory disorders and lung diseases may be aggravated by inhalation of vapors.

Chronic Effects of Overexposure:

Skin which is repeatedly defatted by contact with this product may be more susceptible to irritation, infection, or dermetitis. None of the hazardous ingredients are listed as carcinogens by IARC, NTP, & OSHA

Est'd PEL/TLV: 100 ppm

Primary Routes of Entry: Inh.

HMIS Codes: HEALTH 2;FLAM. 2;REACT. 0;PERS. PROTECT. B ;CHRONIC HAZ. YES

FIRST AID PROCEDURES:

Wash contemhated skin theroughly with soap or a mild detergent. Apply a skin cream with lanolin. Get medical attention if irritation persists.

Eyes: Immediately flush eyes with planty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once, inhale: Move exposed person to fresh sir. If irritation persists, get medical attention promptly. If swallowed, do not induce vomiting, if vomiting occurs, keep head below hip level. Get emergency medical attention immediately.

Protective Clothing:

Eve Protection: Respiratory Protection: Ventilation:

Wear neoprene, nitrile, or natural rubber gloves or gloves with proven resistance to the ingredients listed. Wear tight-fitting splash-proof safety glassas especially if contact lenses are worn.

When exposure levels exceed PEL/TLV (likely in confined areas) use an organic vapor respirator (eg Zep 2211). Provide local exhaust/ventilation as needed to keep concentration of vapors below exposure limits (PEL/TLV).

SECTION V - PHYSICAL DATA

SECTION VI - FIRE AND EXPLOSION DATA

SECTION IV - SPECIAL PROTECTION INFORMATION

Boiling Point (*F): 413-458
Percent Volatile by Volume (%): 100
Solubility in Water: INSOLUBLE

Specific Gravity: Vapor Density (air=1): N/D pH (concentrate): N/A Appearance and Odor: A water white, olly liquid with a hydrocarbon odor.

Vapor Pressure (mmHg): Evaporation Rate (N/D = 1): pH (use dilution of):

0.9 @ 77F N/D N/A

Flash Point (*F) (method used): Flammable Limits: Extinguishing Media: Special Fire Fighting: Unusual Fire Hazarda:

170F (TGO) LEL 0.8% UEL 6.0%

Carbon dioxide, dry chemical, water fog, and alcohol foam. Wear self-contained positive pres. breathing apparatus. Fire exposed drums should be cooled with stream of water.

USEPA SF

DOT Label/Placard: NONE

SECTION VII - REACTIVITY DATA

Stability: incompatibility (avoid): Polymerization:

ezerdous Decomposition:

Stable Heat, open flame, spark, and oddizing agents.

503-286-8057

Will not occur.

Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Reteased or Spilled:

Immediately eliminate all flame, ignition and high-heat sources. Absorb apill on inert absorbent material (eg Zep-o-zorb). Pick up and place residue in a suitable container for disposal. Wash area thoroughly with a detergent solution and rinse well with water.

Liquid wastes are not permitted in lendfills. Product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material (eg Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. Pretreatment may be required before landfilling. Consult local, state, or federal agencies for proper disposal in your area.

RCRA Hazerdous Waste Numbers: N/A

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:

Combustible! Store and use sway from heat, sparks, open flame, or any source of ignition. Post "No Smoking" signs according to local regulations for combustible liquids.
Keep product away from skin and eyes. Do not breathe spray mists or vapors. Clothing or shoes which become contaminated with substance should be removed promptly and not reworn until thoroughly cleaned. Store tightly closed container in a dry area at temps, between 40-120 degrees F. Keep out of the reach of children.

SECTION X - TRANSPORTATION DATA

DOT Proper Shipping Name: NONE

DOT Hazard Class: N/A DOT I.D. Number: N/A

EPA TSCA Chemical Inventory: ALL INGREDIENTS ARE LISTED EPA CWA 40CFR Part 117 substance (RQ in a single container): N/A

NOTICE

hank you for your interest in, and use of, Zep products. Lep Manufacturing Co. Is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Annulacturing is concerned for your health and safety. Zep products can be used safely with proper protective equip-nent and proper handling practices consistent with label netructions and the MSDS. Before using any Zep product, sure to read the complete tabel and the Material Safety lots Sheet.

ista sheet.

s a further word of caution, Zep wishes to advise that erious accidents have resulted from the misuse of empited containers. Emply' containers restin residue liquid and/or vapor) and can be dengerous. DO NOT presurize, cut, weld, braze, solder, drill, grind or expose such ontainers to heat, itame, or other sources of ignition; they hay axplode or develop harmful vapors and possibly cause njury or death. Clean empty containers by triple inching ith water or an appropriate solvent. Empty containers ust be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS USED IN THE MSDS: BY SECTION ALPHABETICALLY:

TION II: HAZARDOUS INGREDIENTS

.# Carcinogon - A chemical listed by the National Toxicol-gy Program (NTP), the International Agency for Research in Cancer (IARC) or OSMA as a definite or possible human encer causing agent. AS #; Chemical Abstract Services Registry Number - A niversally accepted numbering system for chemical sub-

tences.

184: Combustible - At temperatures between 100°F and 00°F chemical gives off enough vapor to ignite if a source f ignition is present as tested with a closed cup tester.

185: Central Nervous System depressant reduces the activity of the brain and epinal cord.

186: Corrective - Causes irreversible piterations in living

ssus (e.g. burns).
ESIGNATIONS; Chemical and common names of hazardous

igredients.

(A; Eye tritiant Only · Causes reversible reddening and/or iffarmation of eye tissues.

KPOSURE UMITS: The time weighted average (TWA) airorms concentration at which most workers can be exposed ithout any expected adverse effects. Primary sources in lude ACGIM TLV's, and OSHA PEL's (TWA, STEL and calling

mits). ACGIH; American Conference of Governmental Industrial

ACGIN; American Contemptor or Government of the Michael Hygienhists.

CEILING: The concentration that should not be exceeded in the working exposure.

OSHA; Occupational Safety and Hesith Administration

PEL: Permissible Exposure Limit- A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM; Parts per million - unit of measure for exposure limits.

From Falls | From

STEL: Short Term Exposure Limit- Maximum concentration

for a continuous 15-minute exposure period.

7LV; Threshold Limit Value - A set of time weighted average exposure limits, established by the ACCIH, for a normal 8-hour day and a 40-hour work week.

FBL; Flammable - At temperatures under 180°F, chemical gives off enough vapor to Ignite If a source of Ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS; Chemical substances determined to be potential hepith or physical hazards by the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX; Highly toxic - the probable lethal dose for 70 kg (150)

NAME of Applicable - Category is not appropriate for this NAME of Approximation of the probable of the NAME of the

product.
N/D; Not Determined - Insufficient Information for a dater-

N/D: Not Determined - Insufficient Information for a determination for this item.

RTEOS; Registry of Todo Effects of Chemical Substances - an unreviewed listing of published todoclogy date on chemical substances.

**SARA: Superfund Amendments and Reauthorization Act - Section 313 designates chemicals for possible reporting for the Todos Release inventory.

SERIF Sensitizer - Couses allergic reaction after reported

exposure.

TOX; Tode - The probable lethal dose for a 70 kg (150 lb.)
man is one cunce (2-tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

SECTION III: HEALTH MAZARD DATA
ACUTE EFFECT; An adverse effect on the human body from
a single exposure with symptoms developing almost immedistery after exposure or within a relatively short time.
CHRONIC SFFECT, Adverse effects that are most likely to
occur from repeated exposure over a long period of time.
ESTD PEUTLY, This estimated, time-weighted sverage, exposure limit, developed by using a formula provided by the
ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing acie workplace conditions to nearly all workers.

MMIS CODES; Hazerdous Material identification System - a
rating system developed by using Paten and Costing

MMIS CODES; Hazerdous Material Identification System - a rating system developed by the National Paint and Costing Association for estimating the hazard potential of a chemi-cal under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Heasth/Flammability/Reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Pro-tection lotter codes which indicate necessary protective faculations.

RIMARY ROUTE OF ENTRY; The way one or more hazreduced noute of experience agency into way one or more nazsidus ingredents may enter the body and cause a generalIzadaystemic or specific-organ toxic effect.

I/NC: Ingestion - A primary route of exposure through
swallowing of material.

I/NI; inhalation - A primary route of exposure through
breathing of vapors.

SMM: A primary route of exposure through contact with

the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks. MSHA: Mine Safety and Health Administration NIOSH; National Institute for Occupational Safety and

Health.

SECTION V: PHYSICAL DATA
EVAPORATION RATE: it refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water), pH: A value representing the actions or askalinity of an aqueous solution (Addic pH = 1; Neutral pH = 7; Alkaline

ppl = 14)
PERCENT VOLATILE; The percentage of the product (liquid
or solid) that will evaporate at 212°F and ambient pressure;
SOLUBILITY IN WATER: A description of the ability of the

SECTION VIL REACTIVITY DATA

SECTION VIB REACTIVITY DATA

MAZARDOUS DECOMPOSITION; Breakdown products expectad to be produced upon product decomposition or fire.

INCOMPATIBILITY; Material contact and conditions to avoid
to prevent hazardous reactions.

POLYMERIZATION; Indicates the tendency of the product's
melecules to combine in a chemical reaction releasing excess pressure and heat.

STABILITY: Indicates the susceptibility of the product to

spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 281) applicable to the disposal of spilled or unusable product from the original

SECTION X: TRANSPORTATION DATA

SECTION A: THANSPORTATION DATA

CWA: Clean Water Act

AC; Reportable Quantity • The amount of the specific ingredent that, when spilled to the ground and <u>can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.</u>

TSCA: Toxic Substances Control Act • a tedaral law requirements. ing all commercial chemical substances to appear inventory maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resutting from the improper use or handling of our products, from incompatible product combinations, or from the lailure to follow instructions, warnings, and advisories in the product's label and Material Safety Data Sheet.

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